Municipal Building/Public Library

ECMs = Energy Conservation Measures	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		inual Energy st Savings	ES	timated stall Cost (\$)	imated entive (\$)	timated Net st (\$)	Simple Payback Period (yrs.)	CO₂e I Reduc (lbs.)	Emission etion
Retrofit fixtures with LED lamps	yes	119,657	30.5	\$	14,654.69	\$	58,922.77	\$ 3,295.00	\$ 55,217.77	3.8	3	120,494
Install Occupancy Sensor Lighting Controls	yes	7,837	2.8	\$	959.87	\$	7,880.00	\$ 1,220.00	\$ 6,660.00	6.9)	7,892
Premium Efficiency Motors	no	762	0.2	\$	93.30	\$	5,424.99	\$ -	\$ 5,424.99	58.1		767
Install High Efficiency Electric A/C	<u>yes</u>	<u>55,171</u>	<u>17.5</u>	\$	6,756.87	\$	130,171.14	\$ 8,004.00	\$ <u>122,167.14</u>	<u>18.1</u>	<u>L</u>	<u>55,556</u>
Total (All ECMs)		183,427	51	. \$	22,464.73	\$	202,398.90	\$ 12,519.00	\$ 189,879.90	8.5	5	184,710
Total (All Cost Effective ECMs)		182,665	50.8	\$	22,371.43	\$	196,973.91	\$ 12,519.00	\$ 184,454.91	8.2	<u>)</u>	183,943

Overall 23.5% savings 45% electric reduction 8.3 years to recoup cost

Police Station

ECMs = Energy Conservation Measures	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	nual Energy t Savings	ES	timated stall Cost (\$)	timated entive (\$)	timated Net st (\$)	Simple Payback Period (yrs.)	CO₂e E Reduct (lbs.)	mission tion
Install LED Fixtures	yes	10,062	1.4	\$ 1,290.35	\$	2,826.28	\$ 40.00	\$ 2,786.28	2.2	2	10,132
Retrofit Fluorescent Fixtures with LED lamps & drivers	yes	48,941	8.7	\$ 6,276.12	\$	14,430.63	\$ 1,620.00	\$ 12,810.63	2.0)	49,283
Retrofit fixtures with LED lamps	yes	7,759	1.3	\$ 994.99	\$	801.29	\$ 130.00	\$ 671.29	0.7	7	7,813
Install LED Exit Signs	yes	208	(\$ 26.66	\$	322.67	\$ -	\$ 322.67	12.1	1	209
Install Occupancy Sensor Lighting Controls	yes	4,418	(\$ 566.81	\$	5,250.00	\$ 655.00	\$ 4,595.00	8.1	1	4,449
Install High Efficieny hot Water Boilers	<u>no</u>	<u>-</u>	<u>0</u>	\$ <u> 165.68</u>	\$	<u>7,436.60</u>	\$ <u>1,000.00</u>	\$ <u>6,436.60</u>	<u>38.9</u>	<u>)</u>	<u>1,946</u>
Total (All ECMs)	71,388	12.4	\$ 9,320.40	\$	31,069.47	\$ 3,445.00	\$ 27,624.47	3.0)	73,833
Total (All Cost Effective ECMs)	71,388	12.4	\$ 9,154.73	\$	23,632.87	\$ 2,445.00	\$ 21,187.87	2.3	3	71,888

Overall 35% savings 50% electric reduction 2.3 years to recoup cost

Public Works

ECMs = Energy Conservation Measures	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		nual Energy t Savings	ES	stimated stall Cost (\$)	timated entive (\$)	timated Net st (\$)	Simple Payback Period (yrs.)	CO₂e Emission Reduction (lbs.)
Install LED Fixtures	yes	17,519	4.9	\$	2,141.10	\$	11,847.26	\$ 4,605.00	\$ 7,242.26	3.4	17,641
Retrofit Fluorescent Fixtures with LED lamps & drivers	yes	1,237	0.6	\$	151.24	\$	1,818.00	\$ -	\$ 1,818.00	12.0	1,246
Retrofit fixtures with LED lamps	yes	1,245	0.6	\$	152.13	\$	1,640.55	\$ 125.00	\$ 1,515.55	10.0	1,253
Install LED Exit Signs	yes	130	C) \$	15.89	\$	215.11	\$ -	\$ 215.11	13.5	5 131
Install Occupancy Sensor Lighting Controls	no	253	0.1	\$	30.95	\$	926.00	\$ 125.00	\$ 801.00	25.9	255
Install High/Low Lighting Controls	<u>yes</u>	98	<u>C</u>) \$	12.00	\$	200.00	\$ 	\$ 200.00	<u>16.7</u>	<u>9</u>
Total (All ECMs	s)	20,229	6.1	\$	2,472.37	\$	15,720.92	\$ 4,730.00	\$ 10,990.92	4.4	20,371
Total (All Cost Effective ECMs	s)	20,834	6.4	\$	2,546.26	\$	17,772.92	\$ 4,980.00	\$ 12,792.92	5.0	20,980

Overall 47% savings 47% electric reduction 4.4 years to recoup cost

Parks & Recreation Areas

ECMs = Energy Conservation Measures	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	nual Energy t Savings	Estimated Install Cos		imated entive (\$)	Estim Cost (nated Net (\$)	Simple Payback Period (yrs.)	CO₂e Emission Reduction (lbs.)
Install LED Fixtures	yes	24,318	12.7	\$ 4,204.92	\$ 107,82	22.67	\$ 6,350.00	\$ 10	1,472.67	24.1	24,488
Retrofit Fluorescent Fixtures with LED lamps & drivers	yes	279	0.3	\$ 48.26	\$ 75	55.00	\$ 20.00	\$	735.00	15.2	281
Retrofit fixtures with LED lamps	<u>yes</u>	3,261	<u>0.7</u>	\$ 563.94	\$ 62	<u> 28.75</u>	\$ 65.00	\$	563.75	1.0	<u>3,284</u>
Total (All ECMs)	247,859	13.7	\$ 4,817.14	\$ 109,20	06.42	\$ 6,435.00	\$ 10	2,771.42	21.3	3 28,054

Overall 57% savings 57% electric reduction 21.3 years to recoup cost

Old Millington Schoolhouse

ECMs = Energy Conservation Measures	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		ual Energy Savings	Est	timated tall Cost (\$)	Estim	ated tive (\$)	Est	imated Net t (\$)	Simple Payback Period (yrs.)	CO₂e Emission Reduction (lbs.)
Install LED Fixtures	yes	3,148	0.5	\$	460.10	\$	1,311.46	\$	220.00	\$	1,091.46	2.4	3,170
Retrofit fixtures with LED lamps	yes	3,650	0.8	\$ \$	533.46	\$	1,084.15	\$	90.00	\$	994.15	1.9	3,675
Install Occupancy Sensor Lighting Controls	yes	149	0.1	. \$	21.80	\$	540.00	\$	-	\$	540.00	24.8	3 150
Install Programmable Thermostats	<u>yes</u>	<u>559</u>	<u>0</u>	\$	199.44	\$	659.74	\$		\$	659.74	<u>3.3</u>	<u>1,924</u>
	Total (All ECMs)	7,505	1.4	\$	1,214.80	\$	3,595.35	\$	310.00	\$	3,285.35	2.7	7 8,919

Overall 16% savings

42% electric reduction & 7% gas reduction

2.7 years to recoup cost

Eight (8) Pumping Stations

ECMs = Energy Conservation Measures	Cost Annual Electric Savings (kWh)	Peak Demand	nnual Energy ost Savings ()	Estimated	Estimated Incentive (\$)	Estimated Ne Cost (\$)	Simple t Payback Period (yrs.)	CO₂e Emission Reduction (lbs.)
Retrofit Fluorescent Fixtures with LED lamps & drivers	524	0.8 \$	72.55	\$ 1,926.67	\$ -	\$ 1,926.67	26.6	5 527
Retrofit fixtures with LED lamps	1,225	0.5 \$	169.75	\$ 650.75	\$ 130.00	\$ 520.75	3.3	1,233
Premium Efficiency Motors	1,737	0.6 \$	240.70	\$ 8,999.84	\$ -	\$ 8,999.84	37.4	1,749
Install VFDs on Pump Motors	172,070	<u>39.1</u> \$	23,845.83	\$ 89,763.97	\$ 14,400.00	\$ 75,363.97	<u>3.2</u>	<u>173,273</u>
Total (All ECMs) 175,555.0	41 \$	24,328.84	\$ 101,341.23	\$ 14,530.00	\$ 86,811.23	3.6	5 176,782

Overall 54% savings

54% electric reduction

3.7 years to recoup cost

Sewage Treatment Plant

ECMs = Energy Conservation Measures	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		nual Energy t Savings	ES	stimated stall Cost (\$)	imated entive (\$)	timated Net st (\$)	Simple Payback Period (yrs.)	CO₂e E Reduc (lbs.)	Emission tion
Install LED Fixtures	yes	27,422	4.5	\$	3,010.28	\$	21,212.10	\$ 185.00	\$ 21,027.10	7.0)	27,614
Retrofit Fluorescent Fixtures with LED lamps & drivers	yes	9,044	3.1	\$	992.85	\$	8,248.00	\$ 530.00	\$ 7,718.00	7.8	3	9,108
Retrofit fixtures with LED lamps	yes	8,064	2.8	\$	885.18	\$	4,600.00	\$ -	\$ 4,600.00	5.2	2	8,120
Install Occupancy Sensor Lighting Controls	no	612	0.2	\$	67.19	\$	1,620.00	\$ 210.00	\$ 1,410.00	21.0)	616
Install High/Low Lighting Controls	no	116	0	\$	12.77	\$	200.00	\$ -	\$ 200.00	15.7	•	117
Install High Efficiency Hot Water Boilers	<u>yes</u>		<u>C</u>	<u>\$</u>	836.37	\$	13,249.89	\$ 1,214.40	\$ 12,035.49	<u>14.4</u>	<u>l</u>	<u>10,513</u>
Total (All ECMs	s)	45,258	10.7	\$	5,804.63	\$	49,129.99	\$ 2,193.40	\$ 46,990.59	8.1	L	56,088
Total (All Recommended ECMs	s)	44,530	10.4	\$	5,724.67	\$	47,309.99	\$ 1,929.40	\$ 45,380.59	7.9)	55,355

Overall 4% savings

3% electric reduction & 10% gas reduction

7.9 years to recoup cost

Street Lighting

ECMs = Energy Conservation Measures	Cost Effective	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Ener Cost Savings (\$)	Estimated	Estimated) Incentive (\$)	Estimated Ne Cost (\$)	Simple t Payback Period (yrs.)	CO₂e Emission Reduction (lbs.)
Install LED Fixtures	yes	231,172	C	9 \$ 8,478.4	2 \$ -	\$ -	\$ -	0.0	232,789
	Total (All ECMs)	231,172	C) \$ 8,478.4	8 \$ -	\$ -	\$ -	0.0	232,789

Overall 11% savings 11% electric reduction Immediately recoup cost

ECMs = Energy Conservation Measures	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Cost Savings	Estimated Install Cost (\$)	Estimated Incentive (\$)	Estimated Net Cost (\$)	Simple Payback Period (yrs.)	CO₂e Emission Reduction (lbs.)
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Mun. Building/Library Total all recommended ECMs	182,665	50.8 \$	22,371.43	\$ 196,973.91	\$ 12,519.00	\$ 184,454.91	8.2	183,943
Police Station Total all recommended ECMs	71,388	12.4 \$	9,154.73	\$ 23,632.87	\$ 2,445.00	\$ 21,187.87	2.3	71,888
Public Works Total all recommended ECMs	20,834	6.4 \$	2,546.26	\$ 17,772.92	\$ 4,980.00	\$ 12,792.92	5.0	20,980
Parks & Recreation Total all recommended ECMs	247,859	13.7 \$	4,817.14	\$ 109,206.42	\$ 6,435.00	\$ 102,771.42	21.3	28,054
Old Millington School Total all recommended ECMs	7,505	1.4 \$	1,214.80	\$ 3,595.35	\$ 310.00	\$ 3,285.35	2.7	8,919
Pumping Stations Total all recommended ECMs	175,555.0	41 \$	24,328.84	\$ 101,341.23	\$ 14,530.00	\$ 86,811.23	3.6	176,782
Sewage Treatment Plant Total all recommended ECMs	44,530	10.4 \$	5,724.67	\$ 47,309.99	\$ 1,929.40	\$ 45,380.59	7.9	55,355
Street Lighting Total all recommended ECMs	231,172	0 \$	8,478.48	\$ -	\$ -	\$ -	0.0	232,789
TOTALS	981,508	136.1 \$	78,636.35	\$ 499,832.69	\$ 43,148.40	\$ 456,684.29	6.4 (average)	778,710